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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,190	06/23/2003	Jobst U. Gellert	2107.0570004/TUM	6429
2611) 75	590 09/16/2004		EXAMINER	
STERNE, KESSLER, GOLDSTEIN & FOX PLLC 1100 NEW YORK AVENUE, N.W.			HEITBRINK, TIMOTHY W	
WASHINGTO			ART UNIT	PAPER NUMBER
			1722	

DATE MAILED: 09/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	77/4
	10/601,190	GELLERT ET AL.	
Office Action Summary	Examiner	Art Unit	
	Tim Heitbrink	1722	
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet	with the correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statud Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	I. 136(a). In no event, however, may a septy within the statutory minimum of the d will apply and will expire SIX (6) Moreover, te. cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this comm ARANDONED (35 U.S.C. & 133)	unication.
Status			
1)⊠ Responsive to communication(s) filed on 02.	July 2004		
_	is action is non-final.		
3) Since this application is in condition for allows		itters prosecution as to the me	erite ie
closed in accordance with the practice under			onto lo
Disposition of Claims	, , , , , , , , , , , , , , , , , , , ,		
4)⊠ Claim(s) <u>1-9 and 16-23</u> is/are pending in the	annlication		
4a) Of the above claim(s) is/are withdra	• •		
5) Claim(s) is/are allowed.	awii iloiii consideration.		
6)⊠ Claim(s) <u>1-9, 16-23</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or alaction requirement		
	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examin			
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	ction is required if the drawin	g(s) is objected to. See 37 CFR 1	.121(d).
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attache	ed Office Action or form PTO-1	152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1. Certified copies of the priority documen	its have been received.		
2. Certified copies of the priority documen		Application No	
3. Copies of the certified copies of the price			ae
application from the International Burea			9.
* See the attached detailed Office action for a list	t of the certified copies no	t received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 		(s)/Mail Date Informal Patent Application (PTO-152	n.
Paper No(s)/Mail Date	6) Other:		·)
S. Patent and Trademark Office			

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9, 16, 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Gellert (U.S. Patent 4,771,164).

Gellert discloses an injection molding nozzle having an embedded electric heater wire 72 and a thermocouple 92 wrapped around said nozzle in a substantially downwardly spiral direction. The thermocouple and heater wire being separated by material 74 surrounding the wire, said material having good heat conductance. The thermocouple 92 and heater 72 being sandwiched in air and electrical insulating material 74 respectively.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 18-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gellert (U.S. Patent 4,771.164).

While the depth of penetration of the thermocouple is almost that of the heater wire, allowing for the same depth would have been obvious in light of In re Japikse, 86 USPQ 70 where a change in location not affecting the operation of a device is considered within the skill of the ordinary artisan. Winding the thermocouple around the

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nozzle a plurality of times would have been obvious in light of In re Rose, 105 USPQ 237 and In re Reven 156 USPQ 679 where the size of an element not affecting the operation of a device is considered within the skill of the ordinary artisan. Lastly, the Examiner will assume in claim 18, on line 4, "on" should be —one—.

Applicant's arguments filed 7-2-04 have been fully considered but they are not persuasive.

Applicant argues Gellert does not disclose an electric heater and thermocouple embedded within the nozzle. The Examiner disagrees. As shown in Fig. 1, wire 72 and thermocouple are embedded in the nozzle. See hole 134 which receives thermocouple 92. Applicant further argues Gellert does not disclose a thermocouple wire element longitudinally adjacent the heater wire. The Examiner disagrees. Since the heater wire has a tighter spiral than the thermocouple, the thermocouple is always adjacent the heater as the thermocouple descends longitudinally.

Lastly, Applicant argues claim 16 limits the invention as being separated by only a dielectric. The Examiner disagrees. Claim 16 is read as being open ended where the invention is not limited to a only a dielectric.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim Heitbrink whose telephone number is 571-272-1132. The examiner can normally be reached on Tuesday-Friday 5:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tim Heitbrink
Primary Examiner
Art Unit 1722

Art Unit 1/22 9-14-04

twh